CLAIMS:

1   1. A method for managing data describing each of a
2   plurality of repetitive motions executed by a plurality
3   of individuals at a plurality of repetitive motion
4   stations located at a plurality of locations, the method
5   comprising the steps of:
6   receiving the data via a network from each of the
7   plurality of stations;
8   recording the data in a data storage device;
9   receiving via the network from a requester at a
10 remote terminal a request for a selected portion of the
11 data; and
12   transmitting via the network to the requester at the
13 remote terminal the selected portion of the data.

1   2. The method of Claim 1 wherein the requester is
2   at least one of the individuals who executed the
3   repetitive motions, at least one instructor responsible
4   for instructing the individual who executed the
5   repetitive motions, and another individual who has
6   permission to access the data.

1   3. The method of Claim 1 wherein the network
2   comprises at least one of the Internet, an intranet, a
3   local area network (LAN), a wide area network (WAN), a T1
4   line, and satellite communication.

1   4.   The method of Claim 1 wherein requester is the
2 individual who executed the repetitive motions, the
3 network comprises at least one of the Internet, an
4 intranet, a local area network (LAN), a wide area network
5 (WAN), a T1 line, and satellite communication, and the
6 individual is requesting the data from a computer
7 terminal located at the individual's residential home.

1   5.   The method of Claim 1 wherein the repetitive
2 motions include at least one of a previous motion
3 executed by the individual, a motion template executed by
4 the individual, and a motion generated by an expert.

1   6.   The method of Claim 1 further comprising:
2   designating for a selected individual a model motion
3 to be a motion template for the selected individual;
4   recording the template in the data storage device;
5 and
6   comparing repetitive motions of the selected
7 individual against the motion template to determine at
8 least one delta between the motion template and the
9 executed repetitive motion.

1   7.   The method of Claim 1 wherein the plurality of
2 stations include at least two stations geographically
3 separated from each other.

1   8.   The method of Claim 1 further comprising:
2   designating for a selected individual a model motion
3 executed by the individual at a first station at a first

4   location to be a motion template for the selected

5   individual;

6   recording the motion template in the data storage

7   device;

8   executing a repetitive motion by the selected

9   individual at a second station at a second location

10 separated from the first station at the first location;

11 and

12   comparing executed repetitive motions of the

13 selected individual at the second station at the second

14 location against the motion template to determine at

15 least one delta between the motion template and the

16 executed repetitive motion.

1   9.   The method of Claim 1 further comprising:

2   designating for a selected individual a model motion

3   to be a motion template for the selected individual;

4   recording the motion template in the data storage

5   device;

6   comparing a executed repetitive motion of the

7   selected individual against the motion template to

8   determine at least one delta between the motion template

9   and the executed repetitive motion; and

10   providing feedback describing the at least one delta

11 to the selected individual.

1   10. The method of Claim 1 further comprising:

2   designating for a selected individual a model motion

3   to be a motion template for the selected individual;

4   recording the motion template in the data storage

5   device;

6   comparing an executed repetitive motion of the
7 selected individual against the motion template to
8 determine at least one delta between the motion template
9 and the executed repetitive motion;
10   developing an individual feedback profile; and
11   providing feedback in accordance with the individual
12 feedback profile describing the at least one delta to the
13 selected individual.

1   11.   The method of Claim 1 further comprising:
2   designating for a selected individual a model motion
3 to be a motion template for the selected individual;
4   recording the motion template in the data storage
5 device;
6   comparing an executed repetitive motion of the
7 selected individual against the motion template to
8 determine at least one delta between the motion template
9 and the executed repetitive motion;
10   developing an individual feedback profile indicating
11 individual preference for the presence or absence of at
12 least one of positive feedback, negative feedback, visual
13 feedback, audible feedback, verbal feedback, one or more
14 selected aspects of executed repetitive motion, and time
15 of the executed repetitive motion; and
16   providing feedback in accordance with the individual
17 feedback profile describing the at least one delta to the
18 selected individual.

1   12. The method of Claim 1 further comprising
2 determining a monetary amount to pay to an instructor
3 each time an individual instructed by the instructor
4 practices the motion without the instructor.

1   13. The method of Claim 1 further comprising
2 compiling data from the plurality of individuals to
3 generate statistical data usable to manufacturers of
4 equipment and apparel used when executing the motions in
5 a selected sport.

1   14. The method of Claim 1 further comprising
2 compiling data from the plurality of individuals to
3 generate statistical data usable by manufacturers of at
4 least one of golf balls, golf shoes, golf clubs, golfing
5 apparel, golf grips, golf gloves, and golf teaching
6 apparatuses used for executing the motions, and wherein
7 the statistical data is accountable for individual
8 handicaps, including slices.

1   15. The method of Claim 1 further comprising:
2 compiling data from the plurality of individuals to
3 generate statistical data usable by manufacturers of
4 equipment and apparel used when executing the motions in
5 a selected sport, and wherein the statistical data is
6 accountable for individual handicaps;
7 compiling data for a particular individual to
8 generate statistical data usable by the particular
9 individual, and wherein the statistical data is

10 accountable for handicaps of the particular individual;
11 and

12   generating a recommendation of what equipment and
13 apparel the particular individual should purchase based
14 on statistical data generated for the particular
15 individual and for the statistical data generated for the
16 plurality of individuals.

1   16. The method of Claim 1 further comprising:
2   compiling data from the plurality of individuals to
3 generate statistical data usable by manufacturers of at
4 least one of golf balls, golf shoes, golf clubs, golfing
5 apparel, golf grips, golf gloves, and golf teaching
6 apparatuses used for executing the motions, and wherein
7 the statistical data is accountable for individual
8 handicaps;

9   compiling data for a particular individual to
10 generate statistical data usable by the particular
11 individual, and wherein the statistical data is
12 accountable for handicaps of the particular individual;
13 and

14   generating a recommendation of what golf balls, golf
15 shoes, golf clubs, golfing apparel, golf grips, golf
16 gloves, and golf teaching apparatuses the particular
17 individual should purchase based on statistical data
18 generated for the particular individual and for the
19 statistical data generated for the plurality of
20 individuals.

1   17. The method of Claim 1 wherein the repetitive
2 motion is at least one of a golf swing, a basketball
3 shot, a baseball bat swing, a tennis swing, a bowling
4 ball swing, a baseball pitch, a gymnastic exercise, and
5 figure skating.

1   18. The method of Claim 1 for conducting a virtual
2 tournament between individuals of a selected portion of
3 the plurality of individuals, the method further
4 comprising:
5   selecting for each individual of the selected
6 portion of the plurality of individuals data describing
7 at least one motion, the data including performance
8 results of the at least one motion;
9   comparing for each individual of the selected
10 portion of the plurality of individuals the data
11 including performance results of the at least one motion
12 to determine which individual has the best performance
13 results from the at least one respective motion; and
14   identifying the individual of the selected portion
15 of the plurality of individuals having the best
16 performance results of the at least one respective motion
17 as the winner of the virtual tournament between
18 individuals of a selected portion of the plurality of
19 individuals.

1   19. The method of Claim 1 for conducting a virtual
2 tournament between individuals of a selected portion of
3 the plurality of individuals, the method further
4 comprising:

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5   selecting for each individual of the selected
6 portion of the plurality of individuals data describing
7 at least one motion, the data including performance
8 results of the at least one motion;
9   comparing for each individual of the selected
10 portion of the plurality of individuals the data
11 including performance results of the at least one motion
12 to determine which individual has the best performance
13 results from the at least one respective motion;
14   identifying the individual of the selected portion
15 of the plurality of individuals having the best
16 performance results of the at least one respective motion
17 as the winner of the virtual tournament between
18 individuals of a selected portion of the plurality of
19 individuals; and
20   simulating an actual environment where the
21 repetitive motion is executed.

1   20. The method of Claim 1 for managing a
2 competition to determine which individual of a selected
3 portion of the plurality of individuals has improved the
4 most, the method further comprising:
5   designating for each individual of the selected
6 portion of the plurality of individuals a respective
7 model motion to be a respective motion template;
8   comparing at a first point in time for each
9 individual of the selected portion of the plurality of
10 individuals at least one respective first executed
11 repetitive motion against a respective motion template to
12 determine at least one first respective delta between the

13 respective motion template and the respective first
14 executed repetitive motion;

15   comparing at a second point in time for each
16 individual of the selected portion of the plurality of
17 individuals at least one respective second executed
18 repetitive motion against a respective motion template to
19 determine at least one second respective delta between
20 the respective motion template and the respective
21 executed repetitive motion;

22   determining for each individual of the selected
23 portion of the plurality of individuals the respective
24 decrease from the respective first delta to the
25 respective second delta; and

26   identifying the individual of the selected portion
27 of the plurality of individuals having the maximum
28 decrease as the winner of the competition to determine
29 which individual of the selected portion of the plurality
30 of individuals has improved the most.

1   21. The method of Claim 1 for managing a
2   competition to determine which individual of a selected
3   portion of the plurality of individuals has been most
4   consistent in practicing repetitive motions, the method
5   further comprising:

6   designating for each individual of the selected
7   portion of the plurality of individuals a respective
8   model motion to be a respective motion template;

9   comparing at each of a plurality of points in time
10 for each individual of the selected portion of the
11 plurality of individuals at least one respective executed
12 repetitive motion against a respective motion template to

13 determine at least one respective delta between the
14 respective motion template and the respective executed
15 repetitive motion, thereby establishing a sequence of
16 deltas for each individual of the selected portion of the
17 plurality of individuals;

18   determining for each individual of the selected
19 portion of the plurality of individuals a respective
20 variance of respective deltas; and

21   identifying the individual of the selected portion
22 of the plurality of individuals having the least variance
23 as the winner of the competition to determine which
24 individual of a selected portion of the plurality of
25 individuals has been most consistent in practicing
26 repetitive motions.

1   22. The method of Claim 1 for managing a
2 competition to determine which individual of a selected
3 portion of the plurality of individuals is practicing
4 closest to a respective motion template, the method
5 further comprising:

6   designating for each individual of the selected
7 portion of the plurality of individuals a respective
8 model motion to be a respective motion template;

9   comparing for each individual of the selected
10 portion of the plurality of individuals at least one
11 respective executed repetitive motion against a
12 respective motion template to determine at least one
13 respective delta between the respective motion template
14 and the respective executed repetitive motion; and

15   identifying the individual of the selected portion
16 of the plurality of individuals having the least delta as

17 the winner of the competition to determine which
18 individual is practicing closest to a respective motion
19 template.

1   23. A programmed digital computer for managing data
2 describing each of a plurality of repetitive motions
3 executed by a plurality of individuals at a plurality of
4 repetitive motion stations located at a plurality of
5 locations, the programmed digital switch including a
6 computer program comprising:
7   computer program code for receiving the data
8 describing each repetitive motion of each of the
9 plurality of individuals at each of the plurality of
10 repetitive motion station at each of the plurality of
11 locations;
12   computer program code for recording the data in a
13 data storage device connected to each of the plurality of
14 repetitive motion stations located at each of the
15 plurality of locations;
16   computer program code for receiving through a
17 network from a requester a request for at least one
18 portion of the data; and
19   computer program code for transmitting through the
20 network to the requester the at least one portion of the
21 data.

1   24. The computer of Claim 23 wherein the requester
2 is one of the individual who executed the repetitive
3 motions, an instructor responsible for instructing the
4 individual who executed the repetitive motions, and
5 another individual who has permission to access the data.

1   25.   The computer of Claim 23 wherein the network
2 comprises at least one of the Internet, an intranet, a
3 local area network (LAN), a wide area network (WAN), a T1
4 line, and satellite communication.

1   26.   The computer of Claim 23 wherein requester is
2 the individual who executed the repetitive motions, the
3 network comprises at least one of the Internet, an
4 intranet, a local area network (LAN), a wide area network
5 (WAN), a T1 line, and satellite communication, and the
6 request is generated by the individual from a computer
7 terminal located at the individual's residential home.

1   27.   The computer of Claim 23 wherein the repetitive
2 motions include at least one of a previous motion
3 executed by the individual, a motion template executed by
4 the individual, and a motion generated by an expert.

1   28.   The computer of Claim 23 further comprising:
2   computer program code for designating for a selected
3 individual a model motion to be a motion template for the
4 selected individual;
5   computer program code for recording the template in
6 the data storage device; and
7   computer program code for comparing executed
8 repetitive motion of the selected individual against the
9 motion template to determine at least one delta between
10 the motion template and the executed repetitive motion.

1   29. The computer of Claim 23 wherein the plurality

2 of stations include at least two stations geographically

3 separated from each other.

1   30. The computer of Claim 23 further comprising:

2 computer program code for designating for a selected

3 individual a model motion executed by the individual at a

4 first station at a first location to be a motion template

5 for the selected individual;

6 computer program code for recording the motion

7 template in the data storage device;

8 computer program code for executing a repetitive

9 motion by the first individual at a second station at a

10 second location separated from the first station at the

11 first location; and

12 computer program code for comparing executed

13 repetitive motion of the selected individual at the

14 second station at the second location against the motion

15 template to determine at least one delta between the

16 motion template and the executed repetitive motion.

1   31. The computer of Claim 23 further comprising:

2 computer program code for designating for a selected

3 individual a model motion to be a motion template for the

4 selected individual;

5 computer program code for recording the motion

6 template in the data storage device;

7 computer program code for comparing an executed

8 repetitive motion of the selected individual against the

9 motion template to determine at least one delta between

10 the motion template and the executed repetitive motion;
11 and
12   computer program code for providing feedback
13 describing the at least one delta to the selected
14 individual.

1   32. The computer of Claim 23 further comprising:
2   computer program code for designating for a selected
3 individual a model motion to be a motion template for the
4 selected individual;
5   computer program code for recording the motion
6 template in the data storage device;
7   computer program code for comparing an executed
8 repetitive motion of the selected individual against the
9 motion template to determine at least one delta between
10 the motion template and the executed repetitive motion;
11   computer program code for developing an individual
12 feedback profile; and
13   computer program code for providing feedback in
14 accordance with the individual feedback profile
15 describing the at least one delta to the selected
16 individual.

1   33. The computer of Claim 23 further comprising:
2   computer program code for designating for a selected
3 individual a model motion to be a motion template for the
4 selected individual;
5   computer program code for recording the motion
6 template in the data storage device;
7   computer program code for comparing an executed
8 repetitive motion of the selected individual against the

9   motion template to determine at least one delta between

10   the motion template and the executed repetitive motion;

11   computer program code for developing an individual

12   feedback profile indicating individual preference for the

13   presence or absence of at least one of positive feedback,

14   negative feedback, visual feedback, audible feedback,

15   verbal feedback, one or more selected aspects of the

16   executed repetitive motion, and time of the executed

17   repetitive motion; and

18   computer program code for providing feedback in

19   accordance with the individual feedback profile

20   describing the at least one delta to the selected

21   individual.

1   34. The computer of Claim 23 further comprising

2   computer program code for determining a monetary amount

3   to pay to an instructor each time an individual

4   instructed by the instructor practices the motion without

5   the instructor.

1   35. The computer of Claim 23 further comprising

2   computer program code for compiling data from the

3   plurality of individuals to generate statistical data

4   usable by manufacturers of equipment and apparel used

5   when executing the motions in a selected sport.

1   36. The computer of Claim 23 further comprising
2 computer program code for compiling data from the
3 plurality of individuals to generate statistical data
4 usable by manufacturers of at least one of golf balls,
5 golf shoes, golf clubs, golfing apparel, golf grips, golf
6 gloves, and golf teaching apparatuses used for executing
7 the motions, and wherein the statistical data is
8 accountable for individual handicaps, including slices.

1   37. The computer of Claim 23 further comprising:
2   computer program code for compiling data from the
3 plurality of individuals to generate statistical data
4 usable by manufacturers of equipment and apparel used
5 when executing the motions in a selected sport, and
6 wherein the statistical data is accountable for
7 individual handicaps;
8   computer program code for compiling data for a
9 particular individual to generate statistical data usable
10 by the particular individual, and wherein the statistical
11 data is accountable for handicaps of the particular
12 individual; and
13   computer program code for generating a
14 recommendation of what equipment and apparel the
15 particular individual should purchase based on
16 statistical data generated for the particular individual
17 and for the statistical data generated for the plurality
18 of individuals.

1   38. The computer of Claim 23 further comprising:

2   computer program code for compiling data from the
3 plurality of individuals to generate statistical data
4 usable by manufacturers of at least one of golf balls,
5 golf shoes, golf clubs, golfing apparel, golf grips, golf
6 gloves, and golf teaching apparatuses used for executing
7 the motions, and wherein the statistical data is
8 accountable for individual handicaps;

9   computer program code for compiling data for a
10 particular individual to generate statistical data usable
11 by the particular individual, and wherein the statistical
12 data is accountable for handicaps of the particular
13 individual; and

14   computer program code for generating a
15 recommendation of what golf balls, golf shoes, golf
16 clubs, golfing apparel, golf grips, golf gloves, and golf
17 teaching apparatuses the particular individual should
18 purchase based on statistical data generated for the
19 particular individual and for the statistical data
20 generated for the plurality of individuals.

1   39. The computer of Claim 23 wherein the repetitive
2 motion is at least one of a golf swing, a basketball
3 shot, a baseball bat swing, a tennis swing, a bowling
4 ball swing, a baseball pitch, a gymnastic exercise, and
5 figure skating.

1   40. The computer of Claim 23 for conducting a
2 virtual tournament between individuals of a selected
3 portion of the plurality of individuals, the computer
4 further comprising:

5   computer program code for selecting for each
6   individual of the selected portion of the plurality of
7   individuals data describing at least one motion, the data
8   including performance results of the at least one motion;

9   computer program code for comparing for each
10   individual of the selected portion of the plurality of
11   individuals the data including performance results of the
12   at least one motion to determine which individual of the
13   selected portion of the plurality of individuals has the
14   best performance results of the at least one respective
15   motion; and

16   computer program code for identifying the individual
17   of the selected portion of the plurality of individuals
18   having the best performance results of the at least one
19   respective motion as the winner of the virtual tournament
20   between individuals of a selected portion of the
21   plurality of individuals.

1   41. The computer of Claim 23 for managing a
2   competition to determine which individual of a selected
3   portion of the plurality of individuals has improved the
4   most, the computer further comprising:

5   computer program code for designating for each
6   individual of the selected portion of the plurality of
7   individuals a respective model motion to be a respective
8   motion template;

9   computer program code for comparing at a first point
10   in time for each individual of the selected portion of
11   the plurality of individuals at least one respective
12   first executed repetitive motion against a respective
13   motion template to determine at least one first

14 respective delta between the respective motion template
15 and the respective first executed repetitive motion;

16   computer program code for comparing at a second
17 point in time for each individual of the selected portion
18 of the plurality of individuals at least one respective
19 second executed repetitive motion against a respective
20 motion template to determine at least one second
21 respective delta between the respective motion template
22 and the respective executed repetitive motion;

23   computer program code for determining for each
24 individual of the selected portion of the plurality of
25 individuals the respective decrease from the respective
26 first delta to the respective second delta; and

27   computer program code for identifying the individual
28 of the selected portion of the plurality of individuals
29 having the maximum decrease as the winner of the
30 competition to determine which individual of the selected
31 portion of the plurality of individuals has improved the
32 most.

1   42. The computer of Claim 23 for managing a
2 competition to determine which individual of a selected
3 portion of the plurality of individuals has been most
4 consistent in practicing repetitive motions, the computer
5 further comprising:

6   computer program code for designating for each
7 individual of the selected portion of the plurality of
8 individuals a respective model motion to be a respective
9 motion template;

10   computer program code for comparing at each of a
11 plurality of points in time for each individual of the

12 selected portion of the plurality of individuals at least
13 one respective executed repetitive motion against a
14 respective motion template to determine at least one
15 respective delta between the respective motion template
16 and the respective executed repetitive motion, thereby
17 establishing a sequence of deltas for each individual of
18 the selected portion of the plurality of individuals;

19   computer program code for determining for each
20 individual of the selected portion of the plurality of
21 individuals a respective variance of respective deltas;
22 and

23   computer program code for identifying the individual
24 of the selected portion of the plurality of individuals
25 having the least variance as the winner of the
26 competition to determine which individual of a selected
27 portion of the plurality of individuals has been most
28 consistent in practicing repetitive motions.

1   43. The computer of Claim 23 for managing a
2 competition to determine which individual of a selected
3 portion of the plurality of individuals is practicing
4 closest to a respective motion template, the computer
5 further comprising:

6   computer program code for designating for each
7 individual of the selected portion of the plurality of
8 individuals a respective model motion to be a respective
9 motion template;

10   computer program code for comparing for each
11 individual of the selected portion of the plurality of
12 individuals at least one respective executed repetitive
13 motion against a respective motion template to determine

14 at least one respective delta between the respective

15 motion template and the respective executed repetitive

16 motion to determine which individual of the selected

17 portion of the plurality of individuals has the least

18 delta; and

19   computer program code for identifying the individual

20 of the selected portion of the plurality of individuals

21 having the least delta as the winner of the competition

22 to determine which individual is practicing closest to a

23 respective motion template.

44. A computer program product for managing data describing each of a plurality of repetitive motions executed by a plurality of individuals at a plurality of repetitive motion stations located at a plurality of locations, the computer program product having a medium with a computer program embodied thereon, the computer program comprising:

computer program code for receiving the data describing each repetitive motion of each of the plurality of individuals at each of the plurality of repetitive motion station at each of the plurality of locations;

computer program code for recording the data in a data storage device connected to each of the plurality of repetitive motion stations located at each of the plurality of locations;

computer program code for receiving through a network from a requester a request for at least one portion of the data; and

computer program code for transmitting through the network to the requester the at least one portion of the data.

45. The computer program product of Claim 44 wherein the requester is one of the individual who executed the repetitive motions, an instructor responsible for instructing the individual who executed the repetitive motions, and another individual who has permission to access the data.

1   46. The computer program product of Claim 44
2 wherein the network comprises at least one of the
3 Internet, an intranet, a local area network (LAN), a wide
4 area network (WAN), a T1 line, and satellite
5 communication.

1   47. The computer program product of Claim 44
2 wherein requester is the individual who executed the
3 repetitive motions, the network comprises at least one of
4 the Internet, an intranet, a local area network (LAN), a
5 wide area network (WAN), a T1 line, and satellite
6 communication, and the request is generated by the
7 individual from a computer terminal located at the
8 individual's residential home.

1   48. The computer program product of Claim 44
2 wherein the repetitive motions include at least one of a
3 previous motion executed by the individual, a motion
4 template executed by the individual, and a motion
5 generated by an expert.

1   49. The computer program product of Claim 44
2 further comprising:
3   computer program code for designating for a selected
4 individual a model motion to be a motion template for the
5 selected individual;
6   computer program code for recording the template in
7 the data storage device; and
8   computer program code for comparing executed
9 repetitive motions of the selected individual against the

10   motion template to determine at least one delta between

11   the motion template and the executed repetitive motion.

1   50.   The   computer   program   product   of   Claim   44

2   wherein the plurality of stations include at least two

3   stations geographically separated from each other.

1   51.   The   computer   program   product   of   Claim   44

2   further comprising:

3   computer program code for designating for a selected

4   individual a model motion executed by the individual at a

5   first station at a first location to be a motion template

6   for the selected individual;

7   computer   program   code   for   recording   the   motion

8   template in the data storage device;

9   computer program code for executing a repetitive

10   motion by the first individual at a second station at a

11   second location separated from the first station at the

12   first location; and

13   computer   program   code   for   comparing   executed

14   repetitive motions of the selected individual at the

15   second station at the second location against the motion

16   template to determine at least one delta between the

17   motion template and the executed repetitive motion.

1   52.   The   computer   program   product   of   Claim   44

2   further comprising:

3   computer program code for designating for a selected

4   individual a model motion to be a motion template for the

5   selected individual;

6   computer program code for recording the motion

7   template in the data storage device;

8   computer program code for comparing an executed

9   repetitive motion of the selected individual against the

10   motion template to determine at least one delta between

11   the motion template and the executed repetitive motion;

12   and

13   computer program code for providing feedback

14   describing the at least one delta to the selected

15   individual.

1   53. The computer program product of Claim 44

2   further comprising:

3   computer program code for designating for a selected

4   individual a model motion to be a motion template for the

5   selected individual;

6   computer program code for recording the motion

7   template in the data storage device;

8   computer program code for comparing an executed

9   repetitive motion of the selected individual against the

10   motion template to determine at least one delta between

11   the motion template and the executed repetitive motion;

12   computer program code for developing an individual

13   feedback profile; and

14   computer program code for providing feedback in

15   accordance with the individual feedback profile

16   describing the at least one delta to the selected

17   individual.

1   54. The computer program product of Claim 44

2   further comprising:

3   computer program code for designating for a selected

4   individual a model motion to be a motion template for the

5   selected individual;

6   computer program code for recording the motion

7   template in the data storage device;

8   computer program code for comparing an executed

9   repetitive motion of the selected individual against the

10 motion template to determine at least one delta between

11 the motion template and the executed repetitive motion;

12   computer program code for developing an individual

13 feedback profile indicating individual preference for the

14 presence or absence of at least one of positive feedback,

15 negative feedback, visual feedback, audible feedback,

16 verbal feedback, one or more selected aspects of the

17 executed repetitive motion, and time of the executed

18 repetitive motion; and

19   computer program code for providing feedback in

20 accordance with the individual feedback profile

21 describing the at least one delta to the selected

22 individual.

1   55. The computer program product of Claim 44

2 further comprising computer program code for determining

3 a monetary amount to pay to an instructor each time an

4 individual instructed by the instructor practices the

5 motion without the instructor.

1   56. The computer program product of Claim 44
2   further comprising computer program code for compiling
3   data from the plurality of individuals to generate
4   statistical data usable by manufacturers of equipment and
5   apparel used when executing the motions in a selected
6   sport.

1   57. The computer program product of Claim 44
2   further comprising computer program code for compiling
3   data from the plurality of individuals to generate
4   statistical data usable by manufacturers of at least one
5   of golf balls, golf shoes, golf clubs, golfing apparel,
6   golf grips, golf gloves, and golf teaching apparatuses
7   used for executing the motions, and wherein the
8   statistical data is accountable for individual handicaps,
9   including slices.

1   58. The computer program product of Claim 44
2   further comprising:
3   computer program code for compiling data from the
4   plurality of individuals to generate statistical data
5   usable by manufacturers of equipment and apparel used
6   when executing the motions in a selected sport, and
7   wherein the statistical data is accountable for
8   individual handicaps;
9   computer program code for compiling data for a
10 particular individual to generate statistical data usable
11 by the particular individual, and wherein the statistical
12 data is accountable for handicaps of the particular
13 individual; and

14   computer   program   code   for   generating   a
15   recommendation   of   what   equipment   and   apparel   the
16   particular   individual   should   purchase   based   on
17   statistical data generated for the particular individual
18   and for the statistical data generated for the plurality
19   of individuals.

1   59.   The   computer   program   product   of   Claim   44
2   further comprising:
3   computer program code for compiling data from the
4   plurality of individuals to generate statistical data
5   usable by manufacturers of at least one of golf balls,
6   golf shoes, golf clubs, golfing apparel, golf grips, golf
7   gloves, and golf teaching apparatuses used for executing
8   the   motions,   and   wherein   the   statistical   data   is
9   accountable for individual handicaps;
10   computer   program   code   for   compiling   data   for   a
11   particular individual to generate statistical data usable
12   by the particular individual, and wherein the statistical
13   data   is   accountable   for   handicaps   of   the   particular
14   individual; and
15   computer   program   code   for   generating   a
16   recommendation of what golf balls, golf shoes, and golf
17   clubs golfing apparel, golf grips, golf gloves, and golf
18   teaching apparatuses the particular individual should
19   purchase based on statistical data generated for the
20   particular individual and for the statistical data
21   generated for the plurality of individuals.

1   60. The computer program product of Claim 44
2   wherein the repetitive motion is at least one of a golf
3   swing, a basketball shot, a baseball bat swing, a tennis
4   swing, a bowling ball swing, a baseball pitch, a
5   gymnastic exercise, and figure skating.

1   61. The computer program product of Claim 44 for
2   conducting a virtual tournament between individuals of a
3   selected portion of the plurality of individuals, the
4   computer program product further comprising:
5   computer program code for selecting for each
6   individual of the selected portion of the plurality of
7   individuals data describing at least one motion, the data
8   including performance results of the at least one motion;
9   computer program code for comparing for each
10   individual of the selected portion of the plurality of
11   individuals the data including performance results of the
12   at least one motion to determine which individual of the
13   selected portion of the plurality of individuals has the
14   best performance results of the at least one respective
15   motion; and
16   computer program code for identifying the individual
17   of the selected portion of the plurality of individuals
18   having the best performance results of the at least one
19   respective motion as the winner of the virtual tournament
20   between individuals of a selected portion of the
21   plurality of individuals.

1   62. The computer program product of Claim 44 for
2 managing a competition to determine which individual of a
3 selected portion of the plurality of individuals has
4 improved the most, the computer program product further
5 comprising:
6   computer program code for designating for each
7 individual of the selected portion of the plurality of
8 individuals a respective model motion to be a respective
9 motion template;
10   computer program code for comparing at a first point
11 in time for each individual of the selected portion of
12 the plurality of individuals at least one respective
13 first executed repetitive motion against a respective
14 motion template to determine at least one first
15 respective delta between the respective motion template
16 and the respective first executed repetitive motion;
17   computer program code for comparing at a second
18 point in time for each individual of the selected portion
19 of the plurality of individuals at least one respective
20 second executed repetitive motion against a respective
21 motion template to determine at least one second
22 respective delta between the respective motion template
23 and the respective executed repetitive motion;
24   computer program code for determining for each
25 individual of the selected portion of the plurality of
26 individuals the respective decrease from the respective
27 first delta to the respective second delta; and
28   computer program code for identifying the individual
29 of the selected portion of the plurality of individuals
30 having the maximum decrease as the winner of the

31 competition to determine which individual of the selected
32 portion of the plurality of individuals has improved the
33 most.

1   63. The computer program product of Claim 44 for
2 managing a competition to determine which individual of a
3 selected portion of the plurality of individuals has been
4 most consistent in practicing repetitive motions, the
5 computer program product further comprising:
6   computer program code for designating for each
7 individual of the selected portion of the plurality of
8 individuals a respective model motion to be a respective
9 motion template;
10   computer program code for comparing at each of a
11 plurality of points in time for each individual of the
12 selected portion of the plurality of individuals at least
13 one respective executed repetitive motion against a
14 respective motion template to determine at least one
15 respective delta between the respective motion template
16 and the respective executed repetitive motion, thereby
17 establishing a sequence of deltas for each individual of
18 the selected portion of the plurality of individuals;
19   computer program code for determining for each
20 individual of the selected portion of the plurality of
21 individuals a respective variance of respective deltas;
22 and
23   computer program code for identifying the individual
24 of the selected portion of the plurality of individuals
25 having the least variance as the winner of the
26 competition to determine which individual of a selected

27 portion of the plurality of individuals has been most
28 consistent in practicing repetitive motions.

1   64. The computer program product of Claim 44 for
2   managing a competition to determine which individual of a
3   selected portion of the plurality of individuals is
4   practicing closest to a respective motion template, the
5   computer program product further comprising:
6   computer program code for designating for each
7   individual of the selected portion of the plurality of
8   individuals a respective model motion to be a respective
9   motion template;
10   computer program code for comparing for each
11 individual of the selected portion of the plurality of
12 individuals at least one respective executed repetitive
13 motion against a respective motion template to determine
14 at least one respective delta between the respective
15 motion template and the respective executed repetitive
16 motion to determine which individual of the selected
17 portion of the plurality of individuals has the least
18 delta; and
19   computer program code for identifying the individual
20 of the selected portion of the plurality of individuals
21 having the least delta as the winner of the competition
22 to determine which individual is practicing closest to a
23 respective motion template.

1   65. A system for managing repetitive motion data

2   describing each of a plurality of repetitive motions

3   executed by a plurality of individuals at a plurality of

4   repetitive motion stations located at a plurality of

5   locations, the system comprising:

6   a communications network;

7   a data processing system connected to the network;

8   a data storage device connected to the data

9   processing system, the data storage device being

10   configured for storing data received from, and retrieving

11   data requested by, the data processing system;

12   at least one repetitive motion station connected to

13   the network and configured for generating and

14   transmitting repetitive motion data via the network to

15   the data processing system configured for processing the

16   data and storing the data in the storage device; and

17   at least one remote terminal connected to the

18   network and configured for sending messages via the

19   network to the data processing system for the retrieval

20   of repetitive motion data from the data storage device.

1   66. The system of Claim 65 wherein the requester is

2   one of the individual who executed the repetitive

3   motions, an instructor responsible for instructing the

4   individual who executed the repetitive motions, and

5   another individual who has permission to access the data.

1   67. The system of Claim 65 wherein the network
2   comprises at least one of the Internet, an intranet, a
3   local area network (LAN), a wide area network (WAN), a T1
4   line, and satellite communication.

1   68. The system of Claim 65 wherein the at least one
2   remote terminal is a computer terminal located at a
3   residential home.

1   69. The system of Claim 65 wherein the repetitive
2   motions include at least one of a previous motion
3   executed by the individual, a motion template executed by
4   the individual, and a motion generated by an expert.

1   70. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:
3   computer program code for designating for a selected
4   individual a model motion to be a motion template for the
5   selected individual;
6   computer program code for recording the template in
7   the data storage device; and
8   computer program code for comparing executed
9   repetitive motions of the selected individual against the
10 motion template to determine at least one delta between
11 the motion template and the executed repetitive motion.

1   71. The system of Claim 65 wherein the plurality of
2   stations include at least two stations geographically
3   separated from each other.

1   72. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:
3   computer program code for designating for a selected
4   individual a model motion executed by the individual at a
5   first station at a first location to be a motion template
6   for the selected individual;
7   computer program code for recording the motion
8   template in the data storage device;
9   computer program code for executing a repetitive
10   motion by the first individual at a second station at a
11   second location separated from the first station at the
12   first location; and
13   computer program code for comparing executed
14   repetitive motions of the selected individual at the
15   second station at the second location against the motion
16   template to determine at least one delta between the
17   motion template and the executed repetitive motion.

1   73. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:
3   computer program code for designating for a selected
4   individual a model motion to be a motion template for the
5   selected individual;
6   computer program code for recording the motion
7   template in the data storage device;
8   computer program code for comparing an executed
9   repetitive motion of the selected individual against the
10   motion template to determine at least one delta between
11   the motion template and the executed repetitive motion;
12   and

13   computer program code for providing feedback
14   describing the at least one delta to the selected
15   individual.

1   74. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:
3   computer program code for designating for a selected
4   individual a model motion to be a motion template for the
5   selected individual;
6   computer program code for recording the motion
7   template in the data storage device;
8   computer program code for comparing an executed
9   repetitive motion of the selected individual against the
10   motion template to determine at least one delta between
11   the motion template and the executed repetitive motion;
12   computer program code for developing an individual
13   feedback profile; and
14   computer program code for providing feedback in
15   accordance with the individual feedback profile
16   describing the at least one delta to the selected
17   individual.

1   75. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:
3   computer program code for designating for a selected
4   individual a model motion to be a motion template for the
5   selected individual;
6   computer program code for recording the motion
7   template in the data storage device;
8   computer program code for comparing an executed
9   repetitive motion of the selected individual against the

10 motion template to determine at least one delta between
11 the motion template and the executed repetitive motion;

12   computer program code for developing an individual
13 feedback profile indicating individual preference for the
14 presence or absence of at least one of positive feedback,
15 negative feedback, visual feedback, audible feedback,
16 verbal feedback, one or more selected aspects of the
17 executed repetitive motion, and time of the executed
18 repetitive motion; and

19   computer program code for providing feedback in
20 accordance with the individual feedback profile
21 describing the at least one delta to the selected
22 individual.

1   76. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising
3   computer program code for determining a monetary amount
4   to pay to an instructor each time an individual
5   instructed by the instructor practices the motion without
6   the instructor.

1   77. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising
3   computer program code for compiling data from the
4   plurality of individuals to generate statistical data
5   usable by manufacturers of equipment and apparel used
6   when executing the motions in a selected sport.

1   78. The system of Claim 65, wherein the data
2 processing system further comprises memory comprising
3 computer program code for compiling data from the
4 plurality of individuals to generate statistical data
5 usable by manufacturers of at least one of golf balls,
6 golf shoes, golf clubs, golfing apparel, golf grips, golf
7 gloves, golf teaching apparatuses used for executing the
8 motions, and wherein the statistical data is accountable
9 for individual handicaps, including slices.

1   79. The system of Claim 65, wherein the data
2 processing system further comprises memory comprising:
3   computer program code for compiling data from the
4 plurality of individuals to generate statistical data
5 usable by manufacturers of equipment and apparel used
6 when executing the motions in a selected sport, and
7 wherein the statistical data is accountable for
8 individual handicaps;
9   computer program code for compiling data for a
10 particular individual to generate statistical data usable
11 by the particular individual, and wherein the statistical
12 data is accountable for handicaps of the particular
13 individual; and
14   computer program code for generating a
15 recommendation of what equipment the particular
16 individual should purchase based on statistical data
17 generated for the particular individual and for the
18 statistical data generated for the plurality of
19 individuals.

1   80. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:
3   computer program code for compiling data from the
4   plurality of individuals to generate statistical data
5   usable by manufacturers of at least one of golf balls,
6   golf shoes, golf clubs, golfing apparel, golf grips, golf
7   gloves, and golf teaching apparatuses used for executing
8   the motions, and wherein the statistical data is
9   accountable for individual handicaps;
10   computer program code for compiling data for a
11   particular individual to generate statistical data usable
12   by the particular individual, and wherein the statistical
13   data is accountable for handicaps of the particular
14   individual; and
15   computer program code for generating a
16   recommendation of what golf balls, golf shoes, golf
17   clubs, golfing apparel, golf grips, golf gloves, and golf
18   teaching apparatuses the particular individual should
19   purchase based on statistical data generated for the
20   particular individual and for the statistical data
21   generated for the plurality of individuals.

1   81. The system of Claim 65 wherein the repetitive
2   motion is at least one of a golf swing, a basketball
3   shot, a baseball bat swing, a tennis swing, a bowling
4   ball swing, a baseball pitch, a gymnastic exercise, and
5   figure skating.

1   82. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:

3   computer program code for selecting for each
4   individual of the selected portion of the plurality of
5   individuals data describing at least one motion, the data
6   including performance results of the at least one motion;

7   computer program code for comparing for each
8   individual of the selected portion of the plurality of
9   individuals the data including performance results of the
10   at least one motion to determine which individual of the
11   selected portion of the plurality of individuals has the
12   best performance results of the at least one respective
13   motion; and

14   computer program code for identifying the individual
15   of the selected portion of the plurality of individuals
16   having the best performance results of the at least one
17   respective motion as the winner of the virtual tournament
18   between individuals of a selected portion of the
19   plurality of individuals.

1   83. The system of Claim 65, wherein the data
2   processing system further comprises memory comprising:

3   computer program code for designating for each
4   individual of the selected portion of the plurality of
5   individuals a respective model motion to be a respective
6   motion template;

7   computer program code for comparing at a first point
8   in time for each individual of the selected portion of
9   the plurality of individuals at least one respective
10   first executed repetitive motion against a respective
11   motion template to determine at least one first
12   respective delta between the respective motion template
13   and the respective first executed repetitive motion;

14   computer program code for comparing at a second
15 point in time for each individual of the selected portion
16 of the plurality of individuals at least one respective
17 second executed repetitive motion against a respective
18 motion template to determine at least one second
19 respective delta between the respective motion template
20 and the respective executed repetitive motion;
21   computer program code for determining for each
22 individual of the selected portion of the plurality of
23 individuals the respective decrease from the respective
24 first delta to the respective second delta; and
25   computer program code for identifying the individual
26 of the selected portion of the plurality of individuals
27 having the maximum decrease as the winner of the
28 competition to determine which individual of the selected
29 portion of the plurality of individuals has improved the
30 most.

1   84. The system of Claim 65, wherein the data
2 processing system further comprises memory comprising:
3   computer program code for designating for each
4 individual of the selected portion of the plurality of
5 individuals a respective model motion to be a respective
6 motion template;
7   computer program code for comparing at each of a
8 plurality of points in time for each individual of the
9 selected portion of the plurality of individuals at least
10 one respective executed repetitive motion against a
11 respective motion template to determine at least one
12 respective delta between the respective motion template
13 and the respective executed repetitive motion, thereby

14 establishing a sequence of deltas for each individual of
15 the selected portion of the plurality of individuals;
16   computer program code for determining for each
17 individual of the selected portion of the plurality of
18 individuals a respective variance of respective deltas;
19 and
20   computer program code for identifying the individual
21 of the selected portion of the plurality of individuals
22 having the least variance as the winner of the
23 competition to determine which individual of a selected
24 portion of the plurality of individuals has been most
25 consistent in practicing repetitive motions.

1   85. The system of Claim 65, wherein the data
2 processing system further comprises memory comprising:
3   computer program code for designating for each
4 individual of the selected portion of the plurality of
5 individuals a respective model motion to be a respective
6 motion template;
7   computer program code for comparing for each
8 individual of the selected portion of the plurality of
9 individuals at least one respective executed repetitive
10 motion against a respective motion template to determine
11 at least one respective delta between the respective
12 motion template and the respective executed repetitive
13 motion to determine which individual of the selected
14 portion of the plurality of individuals has the least
15 delta; and
16   computer program code for identifying the individual
17 of the selected portion of the plurality of individuals
18 having the least delta as the winner of the competition

19   to determine which individual is practicing closest to a

20   respective motion template.

1   86. A method for managing data, the method
2   comprising the steps of:
3   monitoring and generating data describing at least
4   one first repetitive motion executed by at least one
5   first individual at at least one first repetitive motion
6   station located at at least one first location;
7   monitoring and generating data describing at least
8   one second repetitive motion executed by at least one
9   second individual at at least one second repetitive
10   motion station located at at least one second location
11   geographically separated from the at least one first
12   location;
13   transmitting the data describing the at least one
14   first and second repetitive motions from the first and
15   second practice bays via a network to a network server
16   computer having a data storage device; and
17   recording the data to the data storage device.